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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,982	06/20/2003	Jeffrey S. Lille	SA9-99-091US2 , 38.02D	9104
24033 7:	590 07/22/2005		EXAM	NER
KONRAD RAYNES & VICTOR, LLP			KIM, PAUL D	
315 S. BEVERLY DRIVE # 210		•	ART UNIT	PAPER NUMBER
BEVERLY HILLS, CA 90212			3729	

DATE MAILED: 07/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/601,982	LILLE, JEFFREY S.		
		Examiner	Art Unit		
		Paul D. Kim	3729		
Period f	The MAILING DATE of this communicat or Reply	ion appears on the cover sheet w	th the correspondence address		
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNICA' ensions of time may be available under the provisions of 37 r SIX (6) MONTHS from the mailing date of this communical experiod for reply specified above is less than thirty (30) day of period for reply is specified above, the maximum statutor ure to reply within the set or extended period for reply will, is reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION.  CFR 1.136(a). In no event, however, may a lation.  ys, a reply within the statutory minimum of thir y period will apply and will expire SIX (6) MON by statute, cause the application to become Al	eply be timely filed by (30) days will be considered timely. THS from the mailing date of this communication. NANDONED (35 U.S.C. § 133).		
Status					
1) 又	Responsive to communication(s) filed o	n 12 Mav 2005.			
· ·	•	<u> </u>			
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposit	ion of Claims				
5)□ 6)⊠ 7)⊠ 8)□ <b>Applicat</b> 9)□ 10)□	Claim(s) 1-15 is/are pending in the application is objected to by the Extra drawing (s) filed on is/are: a)  Claim(s) 1, 2, 4-6 and 8 is/are rejected.  Claim(s) 3,7 and 9-15 is/are objected to Claim(s) are subject to restriction is objected to by the Extra drawing(s) filed on is/are: a)  Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	vithdrawn from consideration.  and/or election requirement.  caminer.  accepted or b) objected to to the drawing(s) be held in abeyar correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).		
Priority (	under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachmen	it(s)				
1) Notic	ce of References Cited (PTO-892)		summary (PTO-413)		
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449 or PTO er No(s)/Mail Date		s)/Mail Date nformal Patent Application (PTO-152) 		

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#### **DETAILED ACTION**

This office action is a response to the amendment filed on 5/12/2005.

### Examiner's Comment

1. Upon further consideration, examiner hereby withdraws the last office action mailed on 3/10/2005. In view of found prior art, the Ex Parte Quayle mailed on 3/10/2005 is hereby withdrawn.

# Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 4-6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ananth et al. (US PAT. 5,708,540) in view of Carr et al. (US PAT. 5,761,790).

Ananth et al. teach a process of making a slider comprising steps of: providing a ceramic slider body (SL-I); forming at least one trench in a surface of the slider (as shown in Fig. 4'); and forming a carbide structure (B, as per claim 2) in the at least one trench as shown in Fig. 4' (see also col. 9, line 31 to col. 10, line 43). Ananth et al. also teach that a layer (epoxy) is provided between the slider and the carbide structure in order to provide an adhesion (as per claims 6 and 8).

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Even though the slider of Ananth et al. is made of the ceramic, it is well known in the art to use silicon material for the manufacturing the slider. In addition, Carr et al. teach a process of making a slider having at least one trench by etching (as per claim 5) with a silicon material in order to protect weariness as shown in Fig. 6 (also see col. 2, lines 59-62 and col. 6, lines 24-51). Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify a process of fabricating a slider made of ceramic of Ananth et al. by a slider with a silicon material as taught by Carr et al. in order to protect weariness.

As per claim 4 Carr et al. also teach that a protective film (606) as shown in Fig. 6 in order to protect the slider.

## Allowable Subject Matter

- 4. Claims 3, 7 and 9-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to disclose the claimed invention such as the structure formed in the trench of the slider is nitride structure as per claim 15. Also, the prior art of record fails to disclose a read element and a write element formed after the structure formed in the trench of the slider as per claim 3. In addition, the prior art of record fails to disclose the trench of the slider is filled with a metal carbide and anhydrous metal chloride material follow by heating the slider for melting the metal

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carbide and anhydrous metal chloride material as per claim 9. It is not obvious taken alone or in combination of other references fairly to suggest the claimed invention.

# Response to Amendment

6. The claims 1-15 have been considered but are moot in view of the new ground of rejection.

## Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D. Kim whose telephone number is 571-272-4565. The examiner can normally be reached on Monday-Friday between 7:00 AM to 3:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul D Kim `Examiner

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